

FIG. 11A

Leader region

	-19	M M S S A Q F L G L L C E Q G T R C D I Q M T Q T
SCH94.03	ATG ATG TCC TCT GCT CAG TTC CTT GGT CTC CTG TTG CTC TGT TTT CAA GGT ACC AGA TGT GAT ATC CAG ATG ACA CAG ACT	
CH12	---	
germline Vκ10	---	

CDR1

	10	T S S L S A S L G D R V T I S C R A S Q D I S N Y L N
ACA	TCC TCC CTG TCT GCC TCT CTG GGA GAC AGA GTC ACC ATC AGT TGC AGG GCA AGT CAG GAC ATT AGC AAT TAT TTA AAC	
---	---	
germline Vκ10	---	

CDR2

	20	W Y Q Q K P D G T V K L I S C R A S Q D I S N Y L N
TGG	TAT CAG CAG AAA CCA GAT GGA ACT GTT AAA CTC CTG ATC TAC TAC ACA TCA AGA TTA CAC TCA GGA GTC CCA TCA AGG	
---	---	
germline Vκ10	---	

	30	50 60
		P S R
SCH94.03	Y I S R L H S G V P S R	
CH12	---	
germline Vκ10	---	

CDR3

	70	70 80
		F D Y S L T I S N L E Q D I A T Y F C
TTC	AGT GGC AGT GGG TCT GGA ACA GAT TAT TCT CTC ACC ATT AGC AAC CTG GAG CAA GAA GAT ATT GCC ACT TAC TTT TGC	
---	---	
germline Vκ10	---	

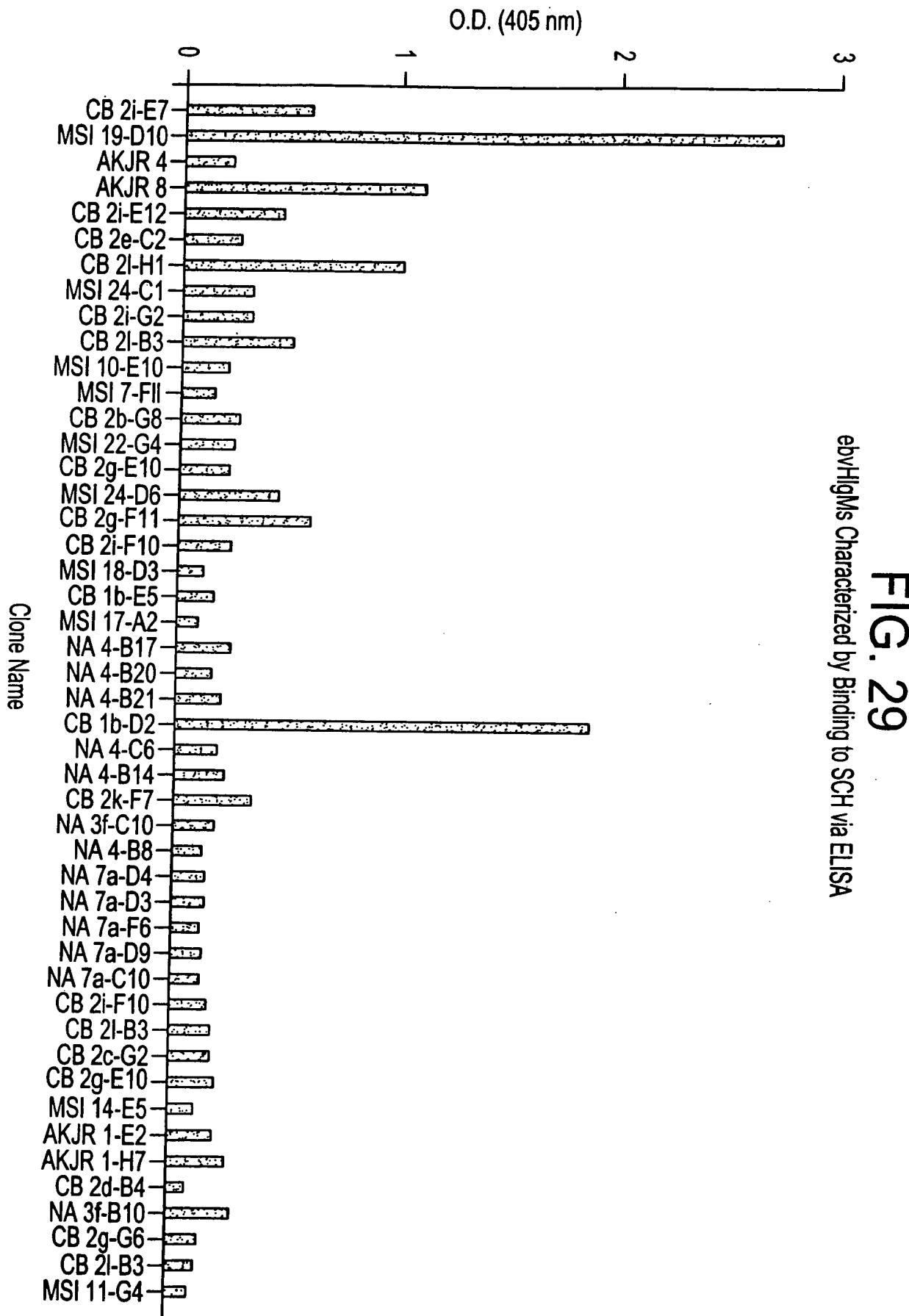
	90	90 100 110
		C K R A D A
SCH94.03	Q G N T L P W T F G G T K L E I K R A D A	
CH12	CAA CAG GGT ATT ACG CCTT CCG TGG AGC TTC GGT GGA GGC ACC AAG CTG GAA ATC AAA CGG GCT GAT GCT	
germline Vκ10	---	
Jκ1	---	

FIG. 13

FIG. 16

FIG. 17

Leader Peptide											
A2BS		M E S G C Q I Q V F V F L W L S G V D I V M T Q S H									
A2BS		ATG GAG TCA CAG ATT CAG GTC ATT GTA TTC GTG TTT CTC TGG TCT GGT GTG ATT GTG ATG ACC CAG TCT CAC									
A2BS		K F M S T S V G D R V S I T C K A S Q D V S T A V W A W Y									
A2BS		AAA TTC TCC ACT TCA GTA CGA GAC AGG GTC AGC ATC ACC TGC AAG GCC AGT CAG GAT GTG AGT ACT GCT GTA GCC TGG TAT									
A2BS		CDR1									
A2BS		K F M S T S V G D R V S I T C K A S Q D V S T A V W A W Y									
A2BS		AAA TTC TCC ACT TCA GTA CGA GAC AGG GTC AGC ATC ACC TGC AAG GCC AGT CAG GAT GTG AGT ACT GCT GTA GCC TGG TAT									
A2BS		CDR2									
A2BS		Q Q K P G Q S P K L I Y S A Y R Y G V P D R F T G									
A2BS		CAA CAG AAA CCA GGA CAA TCT CCT CCG AAA CTA CTG ATT TAC TCG TCC TAC CGG TAC ACT GCA TCC TAC CCT GCA GTC CCT GAT CGC TTC ACT GGC									
A2BS		CDR3									
A2BS		S G S G T D F T F ACC ATC AGC AGT GTG CAG GCT GAA GAC CTG GCA GTT TAT TAC TGT CAG QAG CAT TAT									
A2BS		T T P L T F G A G T K L E L K R									
A2BS		ACT ACT CCG --- --- --- --- --- --- --- --- --- ---									
gemline Jc5		CTC ACG TTC GGT GCT GGG ACC AAG CTG GAG CTG AAA CGG CCT GAT GCT TCA									
gemline Jc5		T T P L T F G A G T K L E L K R									
A2BS		CDR3									
A2BS		J region									
A2BS		T T P L T F G A G T K L E L K R									
A2BS		ACT ACT CCG --- --- --- --- --- --- --- --- ---									
gemline Jc5		CTC ACG TTC GGT GCT GGG ACC AAG CTG GAG CTG AAA CGG CCT GAT GCT TCA									
gemline Jc5		T T P L T F G A G T K L E L K R									
A2BS		CDR3									
A2BS		J region									
A2BS		T T P L T F G A G T K L E L K R									
A2BS		ACT ACT CCG --- --- --- --- --- --- --- --- ---									
gemline Jc5		CTC ACG TTC GGT GCT GGG ACC AAG CTG GAG CTG AAA CGG CCT GAT GCT TCA									
gemline Jc5		T T P L T F G A G T K L E L K R									
A2BS		CDR3									
A2BS		J region									
A2BS		T T P L T F G A G T K L E L K R									
A2BS		ACT ACT CCG --- --- --- --- --- --- --- --- ---									
gemline Jc5		CTC ACG TTC GGT GCT GGG ACC AAG CTG GAG CTG AAA CGG CCT GAT GCT TCA									
gemline Jc5		T T P L T F G A G T K L E L K R									
A2BS		CDR3									
A2BS		J region									
A2BS		T T P L T F G A G T K L E L K R									
A2BS		ACT ACT CCG --- --- --- --- --- --- --- --- ---									
gemline Jc5		CTC ACG TTC GGT GCT GGG ACC AAG CTG GAG CTG AAA CGG CCT GAT GCT TCA									
gemline Jc5		T T P L T F G A G T K L E L K R									
A2BS		CDR3									
A2BS		J region									
A2BS		T T P L T F G A G T K L E L K R									
A2BS		ACT ACT CCG --- --- --- --- --- --- --- --- ---									
gemline Jc5		CTC ACG TTC GGT GCT GGG ACC AAG CTG GAG CTG AAA CGG CCT GAT GCT TCA									
gemline Jc5		T T P L T F G A G T K L E L K R									
A2BS		CDR3									
A2BS		J region									
A2BS		T T P L T F G A G T K L E L K R									
A2BS		ACT ACT CCG --- --- --- --- --- --- --- --- ---									
gemline Jc5		CTC ACG TTC GGT GCT GGG ACC AAG CTG GAG CTG AAA CGG CCT GAT GCT TCA									
gemline Jc5		T T P L T F G A G T K L E L K R									
A2BS		CDR3									
A2BS		J region									
A2BS		T T P L T F G A G T K L E L K R									
A2BS		ACT ACT CCG --- --- --- --- --- --- --- --- ---									
gemline Jc5		CTC ACG TTC GGT GCT GGG ACC AAG CTG GAG CTG AAA CGG CCT GAT GCT TCA									
gemline Jc5		T T P L T F G A G T K L E L K R									
A2BS		CDR3									
A2BS		J region									
A2BS		T T P L T F G A G T K L E L K R									
A2BS		ACT ACT CCG --- --- --- --- --- --- --- --- ---									
gemline Jc5		CTC ACG TTC GGT GCT GGG ACC AAG CTG GAG CTG AAA CGG CCT GAT GCT TCA									
gemline Jc5		T T P L T F G A G T K L E L K R									
A2BS		CDR3									
A2BS		J region									
A2BS		T T P L T F G A G T K L E L K R									
A2BS		ACT ACT CCG --- --- --- --- --- --- --- --- ---									
gemline Jc5		CTC ACG TTC GGT GCT GGG ACC AAG CTG GAG CTG AAA CGG CCT GAT GCT TCA									
gemline Jc5		T T P L T F G A G T K L E L K R									
A2BS		CDR3									
A2BS		J region									
A2BS		T T P L T F G A G T K L E L K R									
A2BS		ACT ACT CCG --- --- --- --- --- --- --- --- ---									
gemline Jc5		CTC ACG TTC GGT GCT GGG ACC AAG CTG GAG CTG AAA CGG CCT GAT GCT TCA									
gemline Jc5		T T P L T F G A G T K L E L K R									
A2BS		CDR3									
A2BS		J region									
A2BS		T T P L T F G A G T K L E L K R									
A2BS		ACT ACT CCG --- --- --- --- --- --- --- --- ---									
gemline Jc5		CTC ACG TTC GGT GCT GGG ACC AAG CTG GAG CTG AAA CGG CCT GAT GCT TCA									
gemline Jc5		T T P L T F G A G T K L E L K R									
A2BS		CDR3									
A2BS		J region									
A2BS		T T P L T F G A G T K L E L K R									
A2BS		ACT ACT CCG --- --- --- --- --- --- --- --- ---									
gemline Jc5		CTC ACG TTC GGT GCT GGG ACC AAG CTG GAG CTG AAA CGG CCT GAT GCT TCA									
gemline Jc5		T T P L T F G A G T K L E L K R									
A2BS		CDR3									
A2BS		J region									



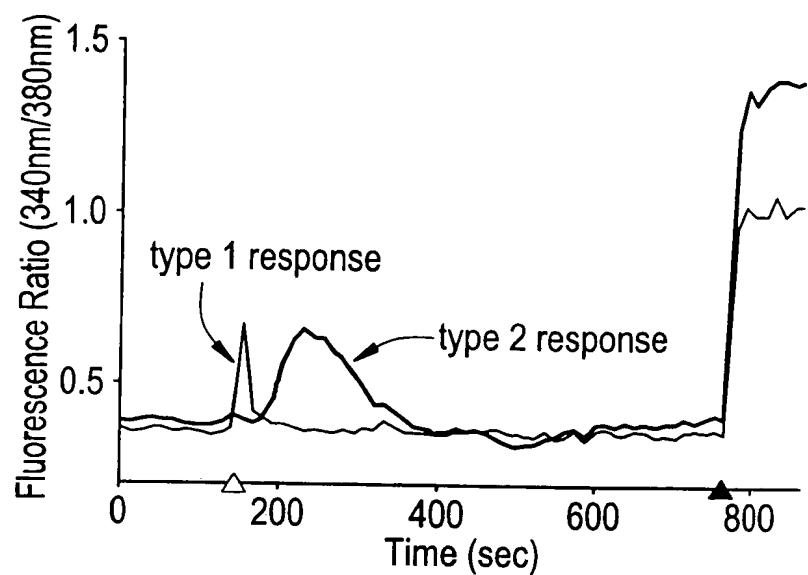
ebvHlgMs Characterized by Binding to SCH via ELISA

FIG. 29

FIG. 39A

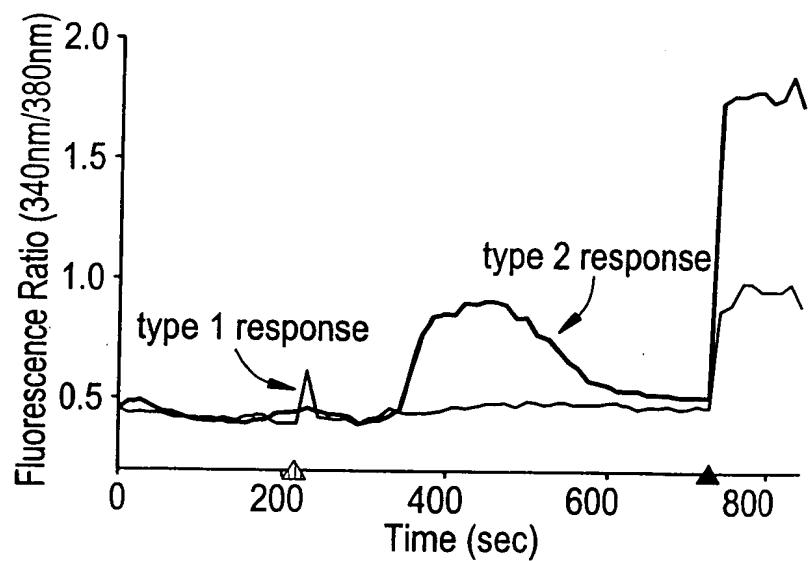
Mixed Primary Glia
sH-IgM.22 Ca^{2+} response

- ratio cell #1
- ratio cell #2
- \triangle sH-IgM.22 (3 $\mu\text{g/ml}$)
- \blacktriangle Br-A23187 (10 μM)

**FIG. 39B**

Mixed Primary Glia
SCH 94.03 Ca^{2+} response

- ratio cell #1
- ratio cell #2
- \triangle SCH 94.03 (3 $\mu\text{g/ml}$)
- \blacktriangle Br-A23187 (10 μM)

**FIG. 39C**

Mixed Primary Glia
CH 12/sH-IgM.14 Ca^{2+} response

- ratio cell #1
- ratio cell #2
- \triangle CH 12 (3 $\mu\text{g/ml}$)
- \triangle sH-IgM.14 (3 $\mu\text{g/ml}$)
- \blacktriangle Br-A23187 (10 μM)

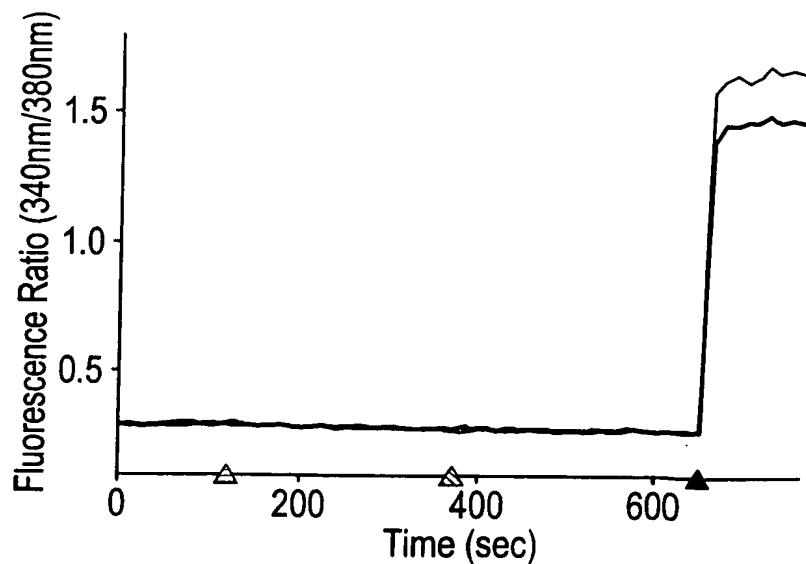


FIG. 72

F R 1 - I M G T -----
 D I V M T Q S P D S L A V S L G E R A T I N
 GAC ATC GTG ATG ACC CAG TCT CCA GAC TCC CTG GCT GTG TCT CTG GAG AGG GCC ACC ATC AAC
 <----->
 C R S S Q S V L Y S S N K N Y L A W Y Q Q
 TGC AAG TCC AGC CAG AGT GTT TTA TAC AGC TCC AAC AAT AAC TAC TTA GCT TGG TAC CAG CAG
 F R 2 - I M G T ----->
 CDR1 - IMGT 30 ----->
 CDR1 - IMGT 35 ----->
 CDR2 - IMGT 55 ----->
 CDR2 - IMGT 60 ----->
 CDR3 - IMGT 105 ----->
 CDR3 - IMGT 65 ----->
 CDR3 - IMGT 110 ----->
 CDR3 - IMGT 125 ----->
 CDR3 - IMGT 130 ----->

1	D	I	V	M	T	Q	S	P	D	S	L	A	V	S	L	G	E	R	A	T	I	N	
	GAC	ATC	GTG	ATG	ACC	CAG	TCT	CCA	GAC	TCC	CTG	GCT	GTG	TCT	CTG	GAG	AGG	GCC	ACC	ATC	AAC		
25	C	R	S	S	Q	S	V	L	Y	S	S	N	K	N	Y	L	A	W	Y	Q	Q		
	TGC	AAG	TCC	AGC	CAG	AGT	GTT	TTA	TAC	AGC	TCC	AAC	AAT	AAC	TAC	TTA	GCT	TGG	TAC	CAG	CAG		
45	K	P	G	Q	P	P	K	L	I	Y	W	A	S										
	AAA	CCA	GGA	CAG	CCT	CCT	AAA	CTA	CTC	ATT	TAC	TGG	GCA	TCT									
70	R	E	S	G	V	P	D	R	F	S	G	S	G										
	CGG	GAA	TCC	GGG	GTC	CCT	...	GAC	CGA	TTC	AGT	GGC	AGC	GGG									
90	L	T	I	S	S	L	Q	A	E	D	V	A	V	Y	Y	C	Q	Y	Y	N	T		
	CTC	ACC	ATC	AGC	AGC	CTG	CAG	GCT	GAA	GAT	GTG	GCA	GTT	TAT	TAC	TGT	CAG	CAA	TAT	TAT	AAT	ACT	